NEWZEN CONSULTANT * Bangalore *

NC/QC/YD-W4/2020-21/SN-C1 **Date: 22-03-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI. BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/YD-W4/2020-21/SN-PCC1 Date: 22-03-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.85	0 -20	30- 70
10mm	29.75	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.30	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.45	60-95	75-100	85-100	
01.18	71.25	30-70	55-90	75-100	
600.mic	48.90	15-34	35-59	60-79	
300.mic	23.10	5-20	8-30	12-40	
150.mic	6.30	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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Proprietor

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NC/QC/YD-W4/2020-21/SN-C2 Date: 24-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.86mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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For Newzen Consultants Bangalore
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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/YD-W4/2020-21/SN-PCC2 **Date: 24-03-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.45	0 -20	30- 70
10mm	28.70	0 -5	10- 35
4.75mm	3.90	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	80.55	60-95	75-100	85-100	
01.18	73.15	30-70	55-90	75-100	
600.mic	45.35	15-34	35-59	60-79	
300.mic	22.90	5-20	8-30	12-40	
150.mic	5.65	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/YD-W4/2020-21/SN-FA1

Date: 25-03-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.50**	60-95	75-100	85-100	
01.18	**74.15**	30-70	55-90	75-100	
600. mic	**46.80**	15.34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**6.70**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.45 %**	-----
2	Silt Content	----	**0.56 %**	Not more than 8%
3	Specific Gravity	----	**2.62**	-------

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD-W4/2020-21/SN-C3

Date: 25-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165 min	Shall not be less than 30 min
2	Final setting time	280 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.09 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.11 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.15 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT Bangalore

NC/QC/YD-W4/2020-21/SN-CA1 Date: 25-03-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.25	85-100	90 - 100
10 mm	45.60	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	24.56 %	Not to exceed 25 %
2.	Crushing value	27.18 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT * Bangalore *

NC/QC/YD-W4/2020-21/SN-S1

Date: 25-03-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm TMT Steel.
{Project*: Improvements to roads and drains at Sharada Nagara in ward no-04.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri Umesh.N, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length Kg/m	**0.399**	0.363	**0.613**	0.567
03	Proof stress/Yield stress, fy , N/mm^2	**562.0**	500.0	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	—	**Ok**	—
05	Percentage of Elongation, %	**19.80**	12.00	**21.60**	12.00
06	Ultimate Tensile Strength N/mm^2	**649.0**	545.0	**646.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.

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